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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,865	03/31/2004	Shu-Ping Chang	SOM920030005US2	5589
	7590 11/06/2007 N & LEWIS, LLP	EXAMINER		
1300 POST ROAD			JAIN, RAJ K	
SUITE 205 FAIRFIELD, CT 06824			ART UNIT	PAPER NUMBER
			2616	
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			11/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/813,865	CHANG ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Raj K. Jain	2616			
	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
Period fo	• •	/ IO OFT TO EVOIDE - MONTH	(0) 00 THETY (00) DAY(0			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tile will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed  the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 31 M	arch 2004.				
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	ion of Claims					
4)🖂	Claim(s) <u>1-28</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	Claim(s) is/are allowed.					
	Claim(s) <u>1-12 and 15-28</u> is/are rejected.					
	Claim(s) <u>13 and 14</u> is/are objected to.					
8)[_	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examine	r.				
10)🛛	) ☑ The drawing(s) filed on <u>31 March 2004</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the o					
44)	Replacement drawing sheet(s) including the correcti		-			
11)	The oath or declaration is objected to by the Ex-	aminer. Note the attached Office	: Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).			
/-	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau					
* S	see the attached detailed Office action for a list of	of the certified copies not receive	<b>?d</b> .			
Attachmen	We)					
Attachmen 1) ⊠ Notic	t(s) e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) ⊠ Inforr Pape	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <del>2007/1923</del> - 07//9/04	5) Notice of Informal F 6) Other:	atent Application			

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 8, 15-24, 27 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Carino, Jr. (USP 5,754,841).

Regarding claim(s) 1, 17 and 28, Carino discloses a method for providing adaptive Quality of Service (QoS) (col 6 lines 63-66, client adapted Qos), the method comprising the steps of: selecting, based on one or more QoS criteria corresponding to a client, one or more given data items suitable for sending to the client in response to a query from the client, the one or more given data items selected from a set of data items (abstract, col 4 lines 9-27; col 6 lines 60-67, client 220 queries interface 206 with specific data items and user selected Qos criteria); and determining one or more statistics associated with the one or more given data items (fig. 3A, col 8 lines 14-18, the resolver 308 optimizes client 220s query based on required data items); wherein the one or more statistics are useable to modify which data items are included in the set of data items (col 8 lines 45-53, 316 modifies the quire plan to accommodate for cost as required).

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Regarding claim(s) 2 and 18, Carino discloses removing one of data items from the set of data items when the one data item has a corresponding statistic below a predetermined value (col 8 lines 25-37).

Regarding claim(s) 3 and 19, Carino discloses the data format comprises one or more of the following: file format of the one or more given data items; compression technique used to create the one or more given data items; compression level of the one or more given data items; image dimensions for the one or more given data items; and text size for the one or more given data items (col 10 line 58 – col 11 line 9).

Regarding claim(s) 4 and 20, Carino discloses one or more QoS criteria comprise one or more of the following: a QoS subscription of a user, network constraints, device constraints, user preferences, a QoS level, and organizational policies (col 6 lines 63-67; col 9 lines 60-67).

Regarding claim(s) 5 and 21, Carino discloses the one or more QoS criteria comprise one or more organizational policies and at least one of the one or more organizational policies comprises a cost (col 8 lines 13-25; lines 45-44; col 14 lines 16-25).

Regarding claim(s) 6 and 22, Carino discloses various data items as video, audio etc (Fig. 1, col 3 lines 49-61).

Regarding claim(s) 7 and 23, Carino discloses selecting at least a portion of the one or more QoS criteria by using one or more of the following: a user identification corresponding to the client and a device identification corresponding to the client (col 6 lines 63-67).

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Regarding claim(s) 8 and 24, Carino discloses plurality of resources associated with the communication network and wherein the step of determining one or more given data items further comprises the step of determining if a given data item meets the one or more QoS criteria (col 6 line 60 – col 7 line 15, Qos criteria is selected by client based on data to be traversed such as video, audio etc.).

Regarding claim(s) 15, 16 and 27, Carino discloses series of query plans to be executed (col 4 lines 60-65; col 9 lines 42-67).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9, 10, 11 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carino, Jr. (USP 5,754,841) in view of Walpole et al (US 2003/0233464)

Regarding claim(s) 9, 11 and 25, Carion fails to disclose transcoding of data based on specific QoS criteria.

Walpole discloses transcoding of data based on specific QoS criteria (paras 38, 42). Adapting data in a shared heterogeneous network environment, such as the Internet, relates to quality-adaptive streaming transmission of data in such an environment. Thus it would have been obvious at the time the invention was made to

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incorporate the teachings of Walpole within Carion so as to provide an heterogeneous network environment for different data types between clients and servers.

Regarding claim(s) 10, Carion fails to disclose priority labeling based on specific QoS criteria. Walpole discloses priority labeling based on specific QoS criteria (para 15). Reasons for combining same as for claim 9 above.

Claim 12 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carino, Jr. (USP 5,754,841) in view of Aggarwal et al (US 20030081624 A1)

Carino fails to disclose QoS criteria levels or predefined QoS levels based on subscriber requirements.

Aggarwal discloses QoS criteria levels or predefined QoS levels based on subscriber requirements (abstract, paras 14 & 25.) Differing QoS levels provides for improved traffic management in network devices, e.g., routers, switches and other traffic bearing nodes (collectively, "network devices") and therefore reducing switching conflict delays, and that support multiple services simultaneously, i.e., any protocol on any interface port in a network device. Thus it would have been obvious at the time the invention was made to incorporate the teachings of Aggarwal within Carino so as to improve network performance to allow for multiple services to be performed simultaneously on a given network as desired.

## Allowable Subject Matter

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Claims 13 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj K. Jain whose telephone number is 571-272-3145. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Raj K. Jain

/Raj K. Jain/

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October 24, 2007